

BRUHAT BANGALORE MAHANAGARA PALIKE, YELAHANKA ZONE

Executive Engineer, Project Division, B.B.M.P., Bangalore - 92

APPROVED SCHEDULE - B

Name of Work: Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04

Sl. No.	App Qty	Description	Unit	Approved Teneder Rates of UDAYA SHETTY	
				Rate in figures	Rate in words
1	90 00	Removing B S Slab of Drain and Stacking complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Sqm	63 00	Sixty Three Rupees and Zero Paise
2	2062 12	KSRRB M300-1 Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH / Chapter 3 complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Cum	177 00	One Hundred Seventy Seven Rupees and Zero Paise
3	72 00	KSRRB M200-13.1 Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By mechanical means, A. Cement concrete Grade M-15 & M-20 complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Cum	468 00	Four Hundred Sixty Eight Rupees and Zero Paise
4	302 61	KSRB 4-1.2 Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications Specification No. KBS 4.1, 4.2, complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Cum	5263 00	Five Thousand Two Hundred Sixty Three Rupees and Zero Paise

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Sl. No.	App Qty	Description	Unit	Approved Teneder Rates of UDAYA SHETTY	
				Rate in figures	Rate in words
5	~~1057.00~~	Providing and laying reinforced cement concrete pipe NP2 of 300mm dia for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour curing complete as per specifications. Specification No KSRB 1000, 2300 MOST Specification No. 1000 / 2300 complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Rmt	~~1288.00~~	One Thousand Two Hundred Eighty Eight Rupees and Zero Paise
6	18.00	KSRB 12-8.1 Constructing brick masonry inspection chamber 600x600mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C I cover with frame (light duty) 600x600mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Nos.	7200.00	Seven Thousand Two Hundred Rupees and Zero Paise
7	~~331.50~~	KSRB 4-6.1. Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Sqm	~~244.00~~	Two Hundred Forty Four Rupees and Zero Paise
8	~~3456.00~~	KSRB 4-6.4. Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Sqm	~~306.00~~	Three Hundred Six Rupees and Zero Paise


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Sl. No.	App Qty	Description	Unit	Approved Teneder Rates of UDAYA SHETTY	
				Rate in figures	Rate in words
9	481.40	Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc. complete (exclusive of cpost of steel and fabricaton charges) Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main and secondary beams. complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Cum	5400.00	Five Thousand Four Hundred Rupees and Zero Paise
10	34.64	KSRB - 4.9.2 Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebtrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Tonne	70000.00	Seventy Thousand Rupees and Zero Paise
11	6.88	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2. complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Cum	5490.00	Five Thousand Four Hundred Ninety Rupees and Zero Paise
12	90.00	Refixing Stone Slabs of Drains and pointing in C.M (1:3) complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Sqm	78.00	Seventy Eight Rupees and Zero Paise
13	1129.50	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc. complete and as per drawing and the directions of Engineer in-charge	Sqm	1700.00	One Thousand Seven Hundred Rupees and Zero Paise

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Sl. No.	App Qty	Description	Unit	Approved Teneder Rates of UDAYA SHETTY	
				Rate in figures	Rate in words
14	~~90.00~~	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.	~~Sqm~~	~~5125.00~~	Five Thousand One Hundred Twenty Five Rupees and Zero Paise
15	490.00	KSRRB M400-19: Construction of Median and island above road level with approved material deposited from borrowpits, spread, sloped and compacted as per Clause 400.7 complete as per specifications. MORTH Specification No.407 complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	cum	205.00	Two Hundred Five Rupees and Zero Paise
16	~~1225.00~~	KSRRB 14.6-1: Providing & laying heavy duty cobble stones 60mm thick interlock pavers using cement & coarse sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (Avg thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	~~Sqm~~	~~934.00~~	Nine Hundred Thirty Four Rupees and Zero Paise
17	~~1225.00~~	KSRRB 14.6-1: Providing and resetting of available heavy duty cobble stones 60mm thick interlock pavers, using cement and coarse sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm joints, final compaction of paver surface joints into its final level, includingthick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between labour and HOM of machineries complete as per specifications complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	~~Sqm~~	~~415.00~~	Four Hundred Fifteen Rupees and Zero Paise


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Sl. No.	App Qty	Description	Unit	Approved Teneder Rates of UDAYA SHETTY	
				Rate in figures	Rate in words
18	1813.00	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc. complete complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	No	320.00	Three Hundred Twenty Rupees and Zero Paise
19	475.00	Removing and Resetting of Kerb Stones complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	m	63.00	Sixty Three Rupees and Zero Paise
20	756.00	KSRRB 800-1 Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications, MORTH Chapter 8 complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Sqm	61.00	Sixty One Rupees and Zero Paise
21	1965.60	KSRRB M300-14 Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications, MORTH Specification No.301 complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Cum	143.00	One Hundred Forty Three Rupees and Zero Paise
22	604.80	KSRRB M400-6.2 Construction of granular sub-base by providing Close graded material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with mortar grader on prepared surface and compacting with vibratory roller to achieve the desired density, complete as per specifications, A Plant Mix method For Grading II Material complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Cum	1622.00	One Thousand Six Hundred Twenty Two Rupees and Zero Paise

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SI. No.		App Qty	Description	Unit	Approved Teneder Rates of UDAYA SHETTY	
					Rate in figures	Rate in words
23		756.00	KSRRB M 400-17. Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications MORTH Specification No 406 complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Cum	1590.00	One Thousand Five Hundred Ninety Rupees and Zero Paise
24		3024.00	KSRRB M 500-6. Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kgl/sqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Cum	28.00	Twenty Eight Rupees and Zero Paise
25		685.00	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications MORTH Spec, Chapter 5 complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Sqm	3.00	Three Rupees and Zero Paise
26		3759.00	KSRRB M500-7 Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications MORTH / Chapter 5 complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	Sqm	11.00	Eleven Rupees and Zero Paise

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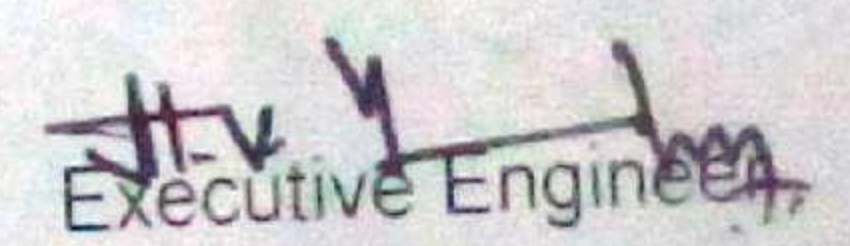
Sl. No.	App Qty	Description	Unit	Approved Teneder Rates of UDAYA SHETTY	
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27	✓ 153.70	KSRRB M500-16 Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P. using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10, complete in all respects complete as per specification MORTH specification No. 507 complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	✓ Cum	✓ 7000.00	Seven Thousand Rupees and Zero Paise
28	✓ 142.76	KSRRB M500-19 Providing and laying bituminous concrete 40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 6% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications MORTH Specification No. 509 complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	✓ Cum	✓ 8000.00	Eight Thousand Rupees and Zero Paise
29	✓ 236.25	KSRRB M800-13 Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC 35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications MORTH Specification No. 803 complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	✓ Sqm	✓ 473.00	Four Hundred Seventy Three Rupees and Zero Paise


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Sl. No.	App Qty	Description	Unit	Approved Teneder Rates of UDAYA SHETTY	
				Rate in figures	Rate in words
30	250.00	Providing and fixing of Reflective Raised Pavement marker (RPM's) / Cat eyes / Road studs conforming to ASTM D4280 type H, having reflective panels made of prismatic lens of total internal reflection, the prismatic lens should be electronically fixed (welded) to the body made of polycarbonate mould, with a height of 20mm, size of 130mm x 105mm and reflecting area of 13sqm with the slope of retro reflective surface within the limit of 35 + 5 degree to the base on either side. The marker shape II display an initial minimum luminous intensity of 279mcd/ lux at an entrance angle of zero degree and observation angle of 0.2 degree. The corresponding values for 20 degree entrance and 0.2 degree observation angle shall be 112 mcd / lux with color multiplying factor on either cases for white, yellow and red markers being 1.0, 0.6 and 0.25 respectively. The RPM's should be fixed by using two numbers of polymer shanks using appropriate adhesive as recommended and certified by the RPM manufacturer. The raised pavement marker should support a sufficient minimum load 13635 Kg in accordance with ministry specification complete as per specification and with all	Nos	324.00	Three Hundred Twenty Four Rupees and Zero Paise
31	40.00	KSRRB M800-36. Provision of red fluorescent with white reflective Nos sleeve traffic cone made of low density polyethylene (LDPE) material with a square base of 390 x 390 x 35 mm and a height of 770 mm, 4 kg in weight, placed at 1.5 m interval, all as per BS. 873 complete as per specifications complete as per specification and with all lead and lifts and directions of the Engineer-In-Charge of the work	each	521.00	Five Hundred Twenty One Rupees and Zero Paise


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